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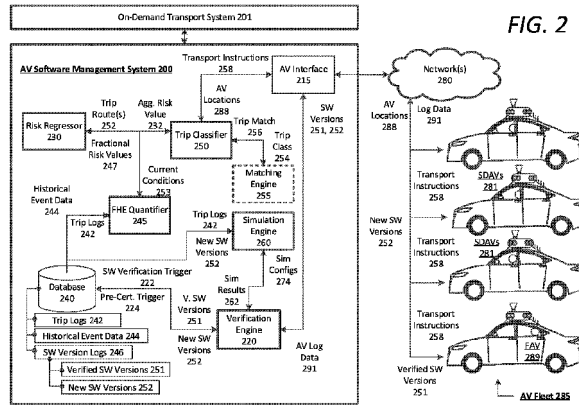
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(54) **PATH SEGMENT RISK REGRESSION SYSTEM FOR ON-DEMAND TRANSPORTATION SERVICES**

(57) One aspect of the present invention relates to an autonomous vehicle software management system comprising one or more processors; a communication interface configured to connect the autonomous vehicle software management system to one or more networks; and one or more memory resources storing instructions that, when executed by the one or more processors, cause the autonomous vehicle software management system to: collect historical data of harmful events of human-driven vehicles within an autonomy grid on which a fleet of autonomous vehicles operate; for each path segment of the autonomy grid, determine a fractional risk value for human-driven vehicles based at least in part on the historical data; receive autonomous vehicle data from the fleet of autonomous vehicles operating throughout the autonomy grid; for each path segment of the autonomy grid, determine a fractional risk value for the auton-

omous vehicles; for each path segment of the autonomy grid, evaluate performance of the autonomous vehicle against the fractional risk values for the human-driven vehicles based on the received autonomous vehicle data; determine a set of optimal autonomous vehicle routes in which the autonomous vehicles are less risky than the human-driven vehicles; and prioritize selection of autonomous vehicles to service transport requests along the set of optimal autonomous vehicle.

EP 4 303 793 A3





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EP 23 21 2062

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			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
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5

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